Joint Concept Development and Experimentation

Campaign Plan 2004-2011 Information Briefing

National Defense Industrial Association

COL Anthony Tata, JFCOM Deputy J9

3, 20

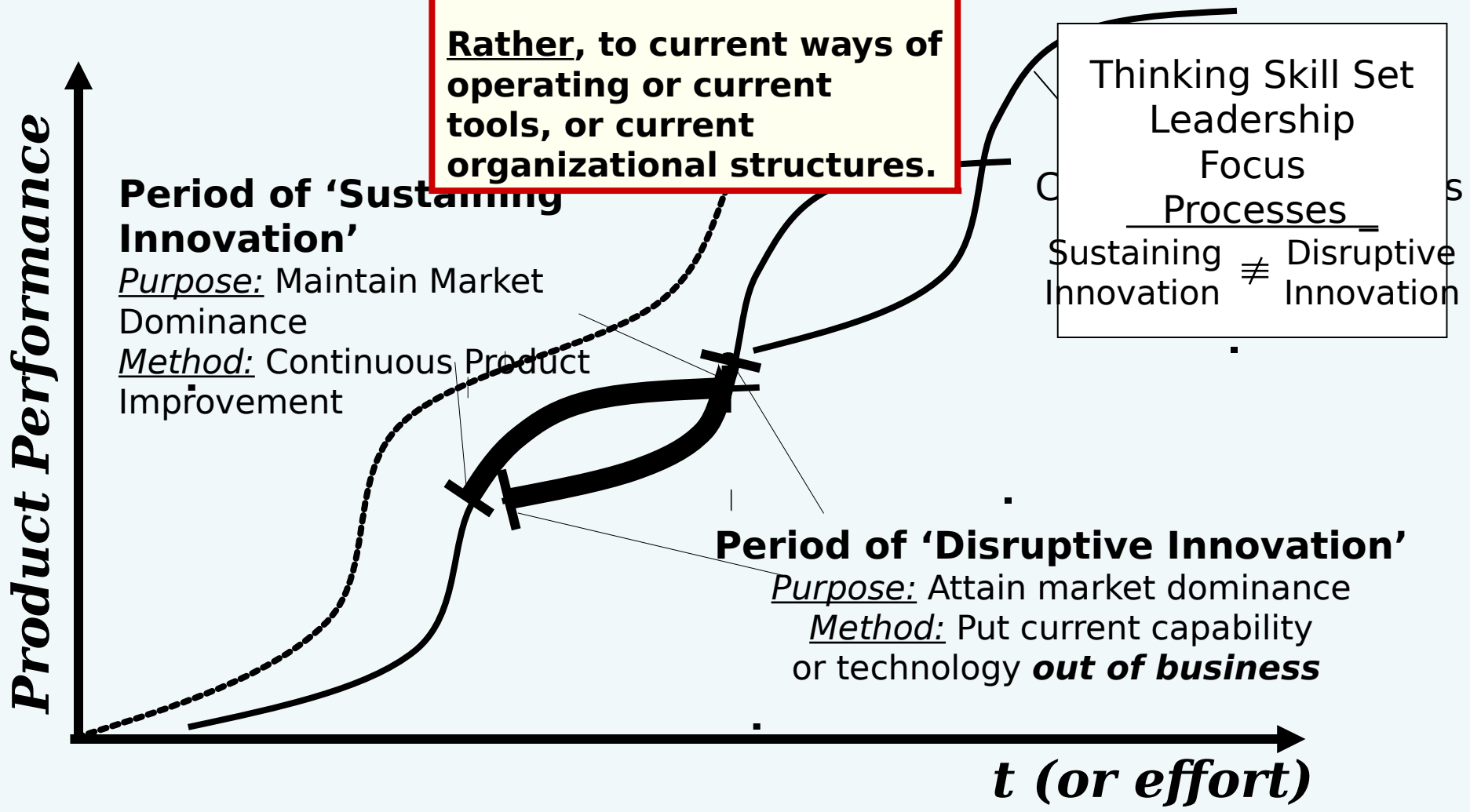
Campaign Purposes

1. Field the Standing Joint Force Headquarters (SJFHQ) – including the enabling concepts for developing transformational joint command and control.
2. Deliver rapid, prototyping of capabilities to improve joint warfighting now.
3. Provide actionable recommendations from experimentation results to senior leaders to inform options for future force investments.
4. Include our Combatant Commands, Services, Defense Agencies and Multinational partners; collaborate in experimentation activities.

Delivering Innovation

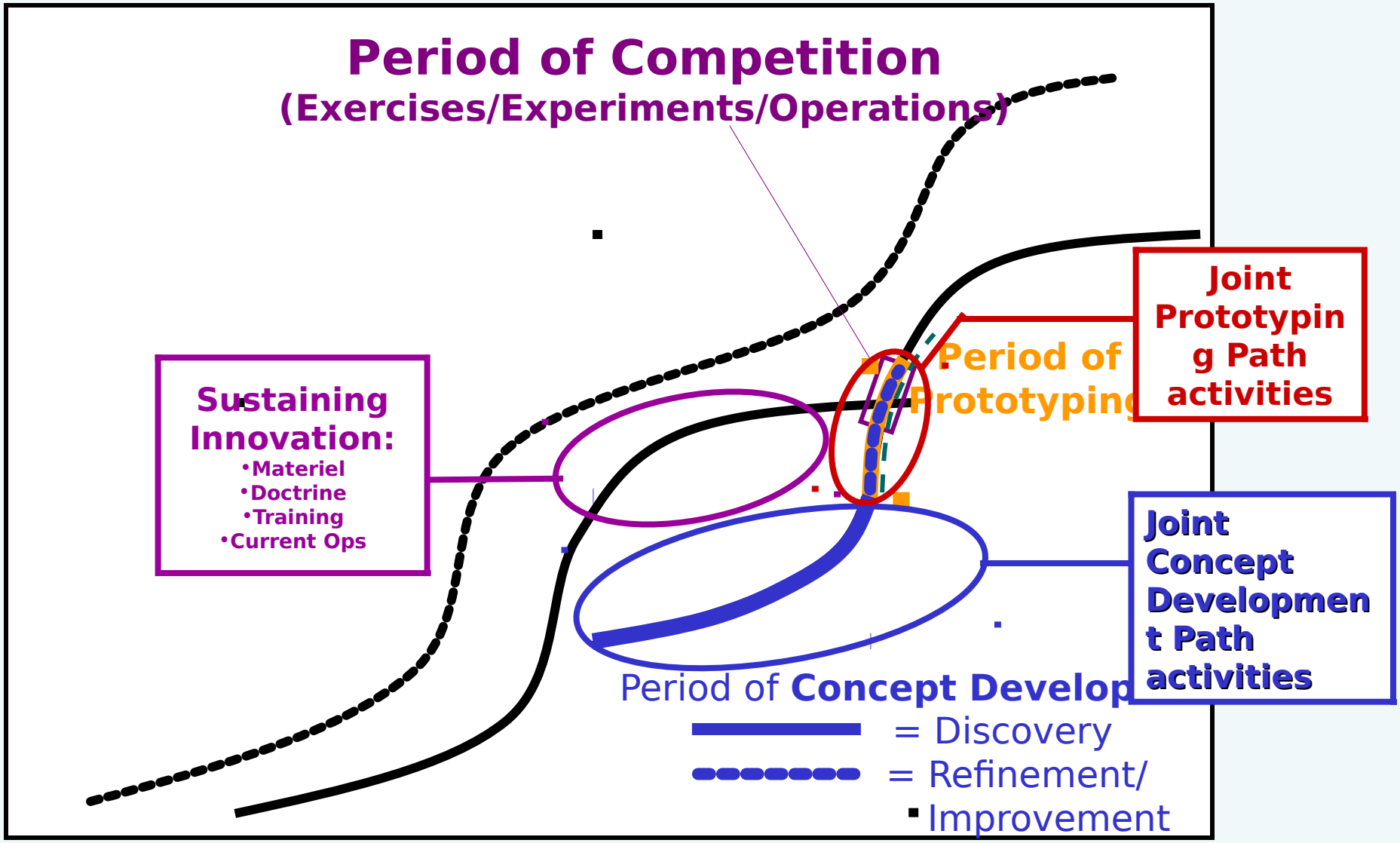
Disruptive: not to joint warfighting - enhance that.

<u>Rather</u>, to current ways of operating or current tools, or current organizational structures.

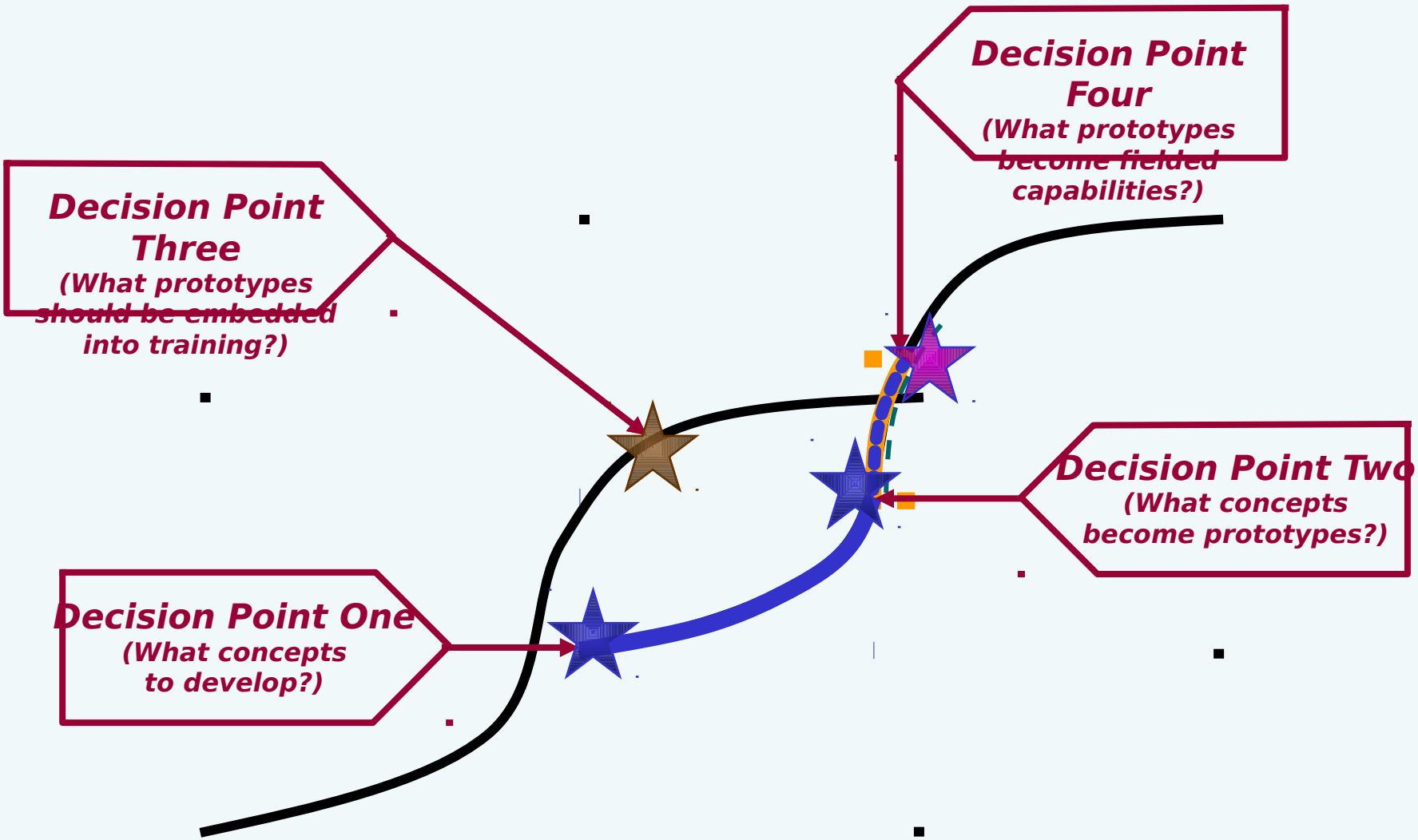


[Reference: <u>The Innovator's Dilemma</u> by Clayton M. Christensen]

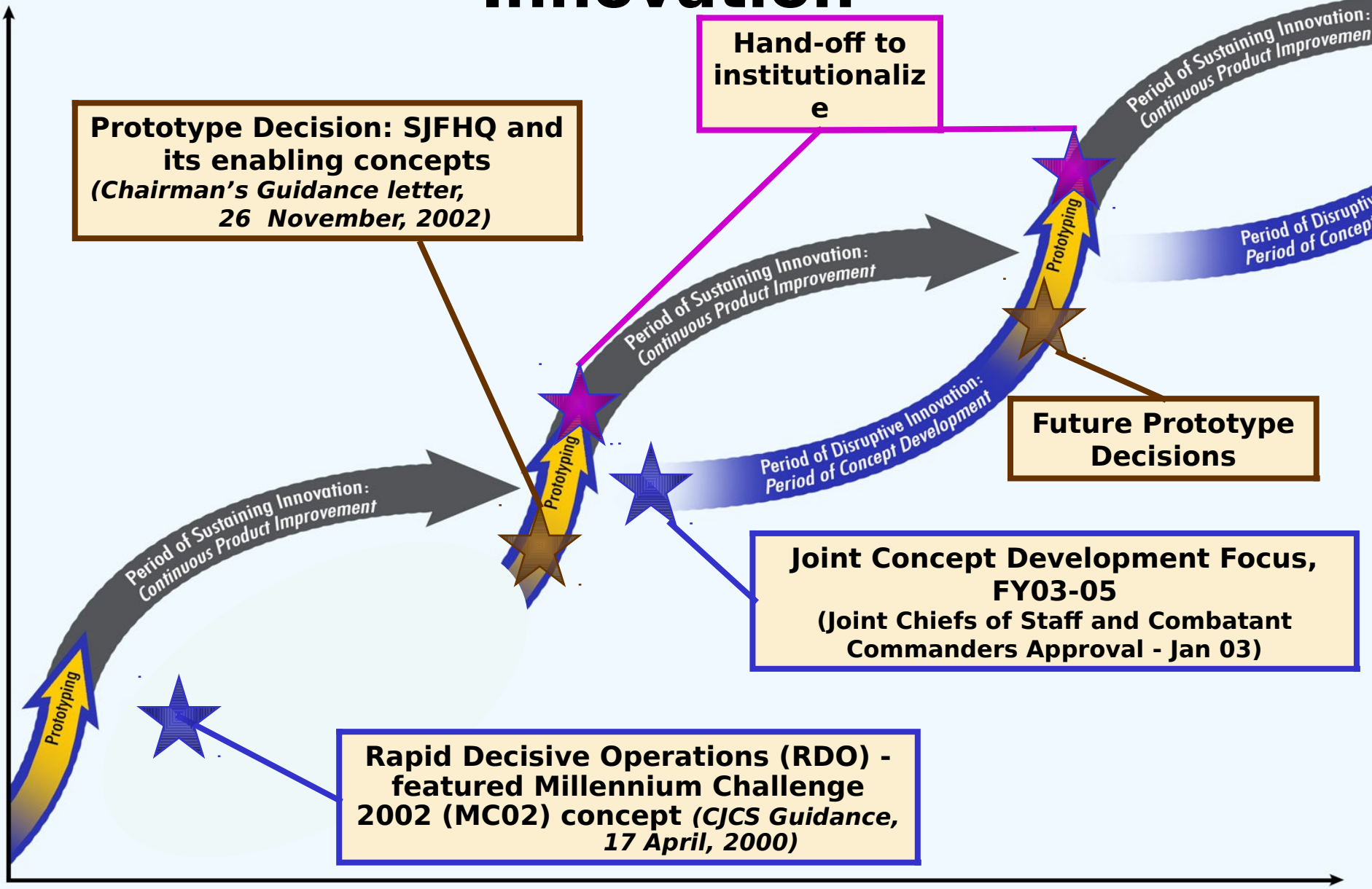
Delivering Innovation



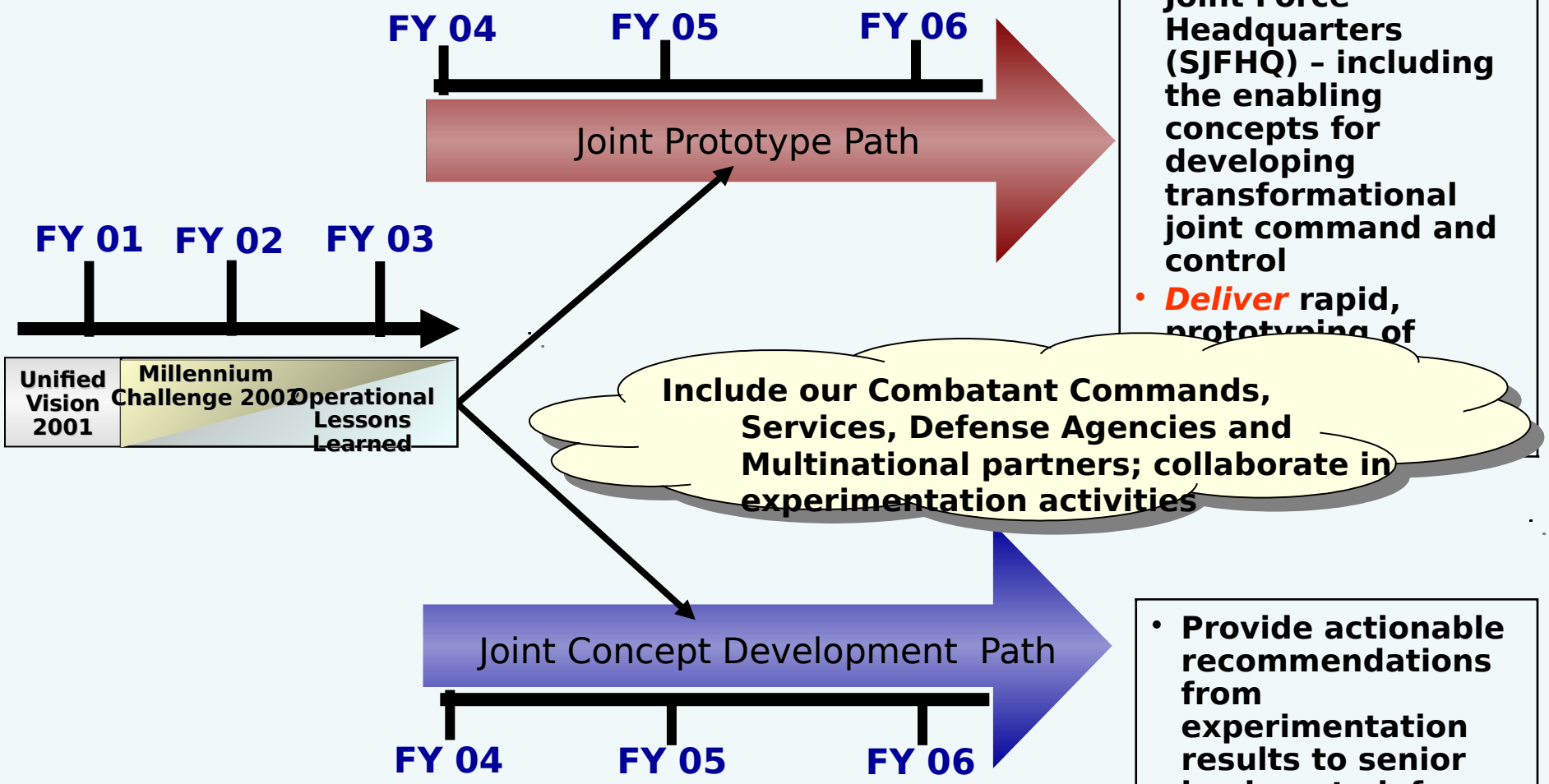
Transition Decisions


Decision Point Four
(What prototypes become fielded capabilities?)
Decision Point Three
(What prototypes should be embedded into training?)
Decision Point Two
(What concepts become prototypes?)
Decision Point One
(What concepts to develop?)

Delivering Innovation


Hand-off to institutionalize
Prototype Decision: SJFHQ and its enabling concepts
(Chairman's Guidance letter, 26 November, 2002)
Period of Sustaining Innovation: Continuous Product Improvement
Prototyping
Period of Disruptive Innovation: Period of Concept Development
Future Prototype Decisions
Joint Concept Development Focus, FY03-05
(Joint Chiefs of Staff and Combatant Commanders Approval - Jan 03)
Rapid Decisive Operations (RDO) - featured Millennium Challenge 2002 (MC02) concept (CJCS Guidance, 17 April, 2000)

Joint Concept Development and Experimentation Strategy



- Field the Standing Joint Force Headquarters (SJFHQ) – including the enabling concepts for developing transformational joint command and control
- ***Deliver*** rapid, prototyping of

- Provide actionable recommendations from experimentation results to senior leaders to inform options for future force investments

Joint Concept Development and Experimentation Strategy

- Leverage Combatant Commander Exercises and Operations
- Leverage Service Sponsored Wargames and Seminars

FY 04 FY 05 FY 06

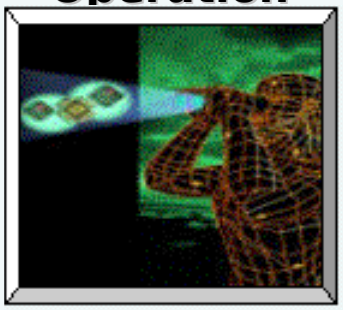
Joint Prototype Path

The Approach

Improve Joint Warfighting Capabilities NOW!

Joint Fires Initiative

Effects Based Operation

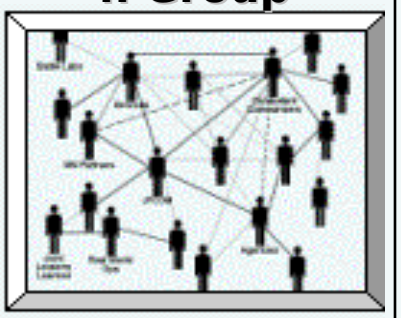


Operational Net Assessmen

Logistics Common Relevant

Collaborative Information Environment

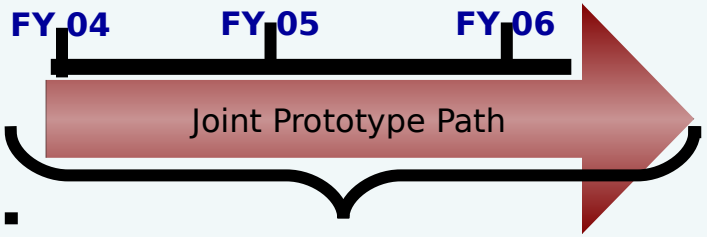
Joint Interagency Coordination Group



All Linked to the Standing Joint Force Headquarters Core Elemen

Joint Prototype Path Status

- Leverage Combatant Commander Exercises and Operations
- Leverage Service Sponsored Wargames and Seminars



- Field the Standing Joint Force Headquarters (SJFHQ) – including the enabling concepts for developing transformational joint command and control
- Deliver rapid, prototyping of

Prototype	Regional and Functional Combatant Commanders (9)		
	Aug 02	Dec 03	Dec 05
Standing Joint Force Headquarters			
Collaborative Information Environment	0	9	9
Operational Net Assessment	0	6	7
Joint Fires Initiative	0	5	8
Joint Interagency Coordination Group	0	6	9
Effects Based Operations	0	3	9
Logistics Common Relevant Operating Picture	0	3	8
n Development			
Reengineering Deployment Process (JDPO)			
Multinational Information Sharing			
Joint Intelligence, Surveillance and Reconnaissance			

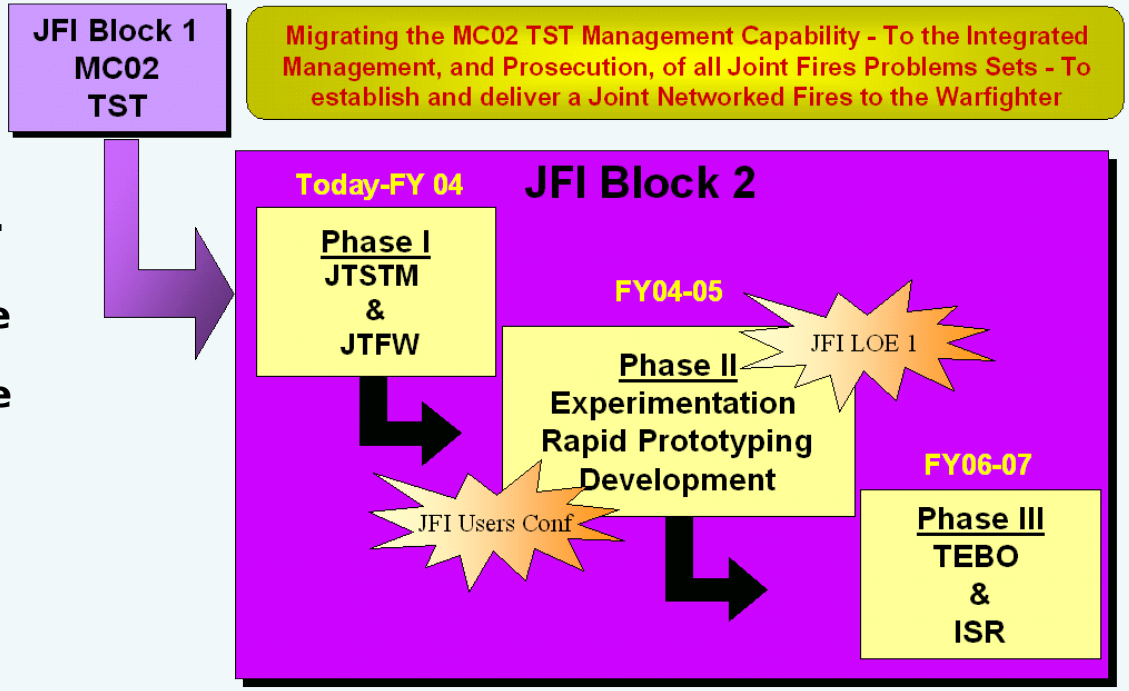
Multinational Participation in all Prototype Development Activities

Joint Fires Initiative

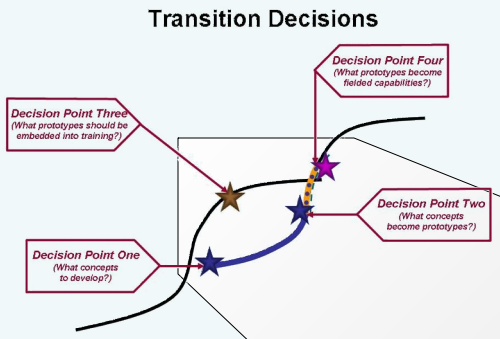
1. JFI will improve the Joint Force's capability to manage and prosecute fires by:
   a. Coordinating DoD fires and fire support systems.
   b. Integrating joint fires and fire support capabilities.
   c. Pursuing interoperability of C2ISR.
   d. Supporting joint force, multinational and interagency.

2. JFI will be accomplished in three phases:
   a. Phase I will increase Joint Time Sensitive Target Management functionalities.
   b. Phase II will create a jointly integrated/interoperable fires and fire support management
   c. Phase III will integrate C2ISR architectures into a singular fires prosecution capability

JFI Approach



Prototype Transition Sequence



Non-Material
Transition Requirements
Functional Rqmt's
DOTMLPF Change Recommendation Documents
Training Material/Rqmt's
Experiment Results/Final Report
Transition Plan

Non-material
JROC
JFCOM J7
Services
COCOMS

DP2 DP3 DP4

Concept Transition

Prototype Refinement Phase | **Prototype Validation Phase** | **Prototype Transition Phase**

Material
JROC
JFCOM J8
JFCOM J2
Services
SYSCOMS
COCOMS
Gov't Labs

Concept Transition Requirements
White Paper
Preliminary TTPs
Preliminary CONOPS
Preliminary Training Material/Rqmt's
Recommended System Rqmt's
Material Rqmt's
Transformation Change Proposal Documents
Estimated Prototype Cost ($/Duration)
Experiment Results/Final Report

Material
Transition Requirements
System Rqmt's
Material Rqmt's
Functional Rqmt's
Training Material/Rqmt's
DOTMLPF Change Recommendation Documents
Experiment Results/Final Report
Transition Plan

Joint Concept Development and Experimentation Strategy

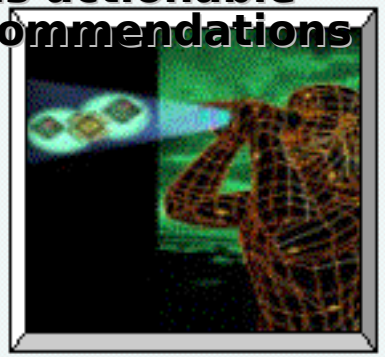
Build a Body of Knowledge

Co-evolve Joint and Service concepts and capabilities

Incorporates Operational Lessons Learned

Small, iterative experiments

Identify observations and insights packaged as actionable recommendations



The Approach

Joint Concept Development Path

FY 04 FY 05 FY 06

Joint Concepts And Actionable Recommendations
options for future force investment

- Leverage Combatant Commander Exercises and Operations
- Leverage Service Sponsored Wargames and Seminars

Developing Future Capabilities

- Combatant Commanders ☑
- Joint Staff ☑
- Services ☑

Joint Areas of Experimentation

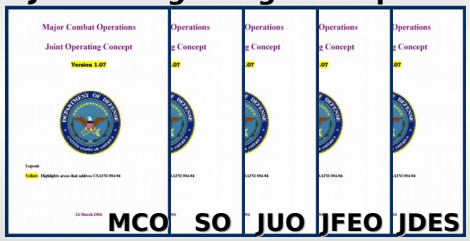
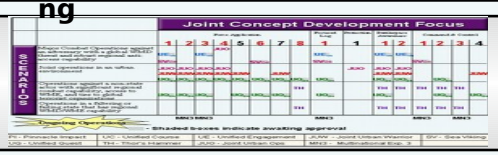
Force Application	Focused Logistics	Protection	Battlespace Awareness	Command & Control
1. *Joint Strike:* a. *Strategic* b. *Operational* c. *Tactical*	1. *Force projection: Deployment, Employment and Sustainability*	1. Force Protection and Base Protection	1. *Achieving Info Superiority (anticipatory understanding)*	1. *Decision Making in a Collaborative Information Environment*
2. *Interagency Ops*			2. *Joint ISR*	2. *Global Integration*
3. *Multinational Ops*				3. *Coalition and Interagency Info Sharing*
4. *Urban Operations*				4. Proper Decentralization
5. Deny Sanctuary				
6. *Counter Anti-access and Area-denial (includes Forcible Entry Ops)*				
7. Stability Operations				
8. *Information Operations & Info Assurance*				

Network Centric Functional Capabilities Board recently established. JFCOM working with Joint Staff on specific joint areas of experimentation

Joint Service-Sponsored Wargames

Our First Step: Army/JFCOM Co-sponsored Unified Quest 03

How?

Joint Context	Joint Context Applied
1. Use of Joint Concepts that a. Include SJFHQ with enabling capabilities as the "baseline." b. Assist in developing and defining joint operating concepts derived from the Joint Operations Concepts. c. Provide alternate approaches to joint problems	**Joint Operating Concepts** **Joint Integrating Concepts**  MCO SO JUO JFEO JDES
2. The Joint, Interagency, and Multinational Warfighters' community is represented to ensure "Born-Joint" Concept development.	
3. Uses common, consistent and transparent joint data, tools, services, joint analyses and metrics.	
4. Results in development of actionable joint force recommendations.	Army Forces, Air Forces, Marine Forces, Navy Forces **From: Heirarchical, Deconflicting** **To: Networked, capabilities-based**
5. Uses one or more of the common set of scenarios.	

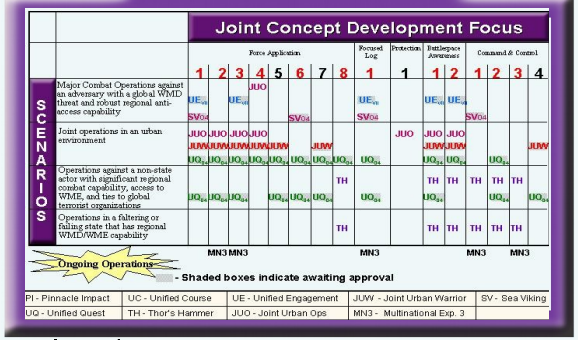
Co-sponsor when it makes sense

Joint Concept Development Path

Calendar Predictability

Nov - Dec 03

Observations, Insights And Actionable Recommendations To Senior Leadership

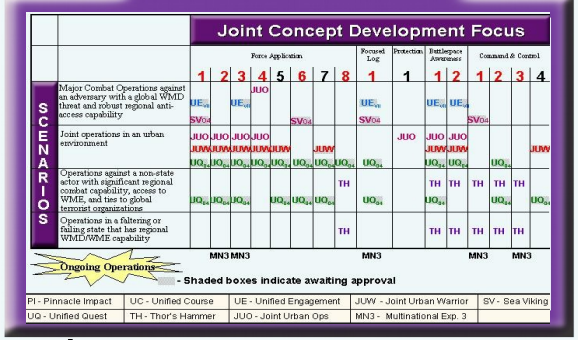

Joint Concept Development Focus
Force Application
Focused Log
Protection
Battlespace Awareness
Command & Control
SCENARIOS
Major Combat Operations against an adversary with a global WMD threat and robust regional anti-access capability
Joint operations in an urban environment
Operations against a non-state actor with significant regional combat capability, access to WME, and ties to global terrorist organizations
Operations in a faltering or failing state that has regional WMD/WME capability
Ongoing Operations
MN3 MN3
MN3
MN3
MN3
- Shaded boxes indicate awaiting approval
PI - Pinnacle Impact
UC - Unified Course
UE - Unified Engagement
JUW - Joint Urban Warrior
SV - Sea Viking
UQ - Unified Quest
TH - Thor's Hammer
JUO - Joint Urban Ops
MN3 - Multinational Exp. 3

- JFCOM/Army Wargame
  Unified Quest 03
  (27 Apr – 2 May 03)
  (Co-Sponsored)
- JFCOM JCD Path Wargame
  Pinnacle Impact 03
  (12-21 May 03)

OSD-Net Assessment Transformation Challenge III
(28 Jul – 01 Aug 03)

Jun - Jul 04

Observations, Insights And Actionable Recommendations To Senior Leadership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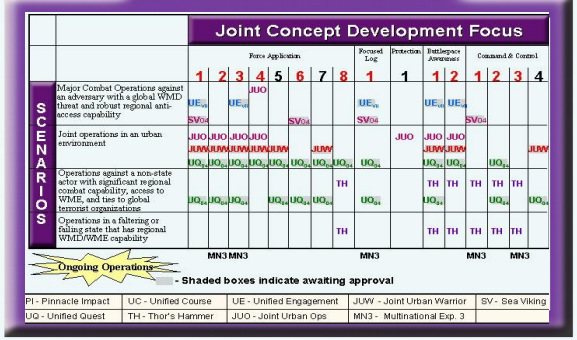
- JFCOM/Navy JCD Path
  Counter Anti-Access Wargame
  Unified Course 04
  (05-09 Oct 03)
- STRATCOM/SOCOM/JFCOM/NRO
  Thor's Hammer
  Decision Superiority Wargame
  (23-27 Feb 04)

USAF Futures
(11-16 Jan 04)

JFCOM MN Experiment 3
(02-20 Feb 04)

Nov - Dec 04

Observations, Insights And Actionable Recommendations To Senior Leadership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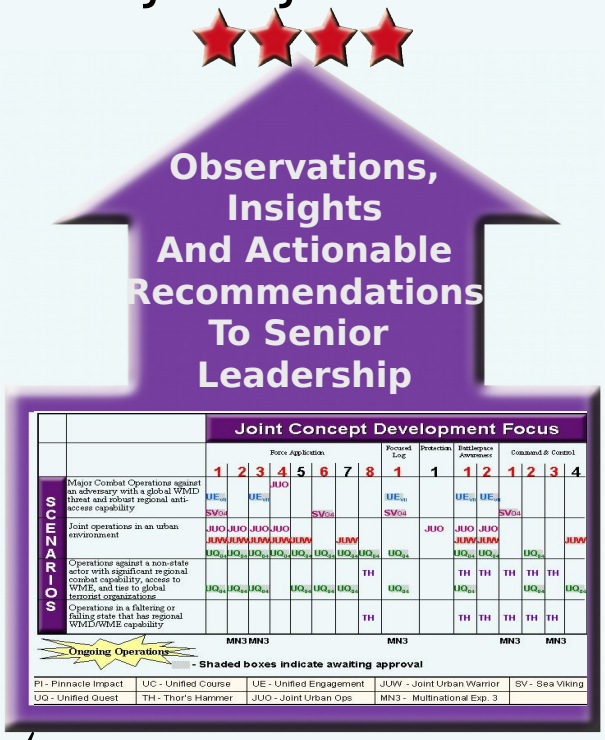
MN3 - Multinational Exp. 3

- JFCOM/USMC Joint Urban Warrior 4
  Joint Urban Operations Wargame
  (22-26 Mar 04)
- JFCOM/Army JCD Path
  Major Combat Ops and
  Stability Ops Wargame
  Unified Quest 04
  (02-07 May 04)

Joint Concept Development Path

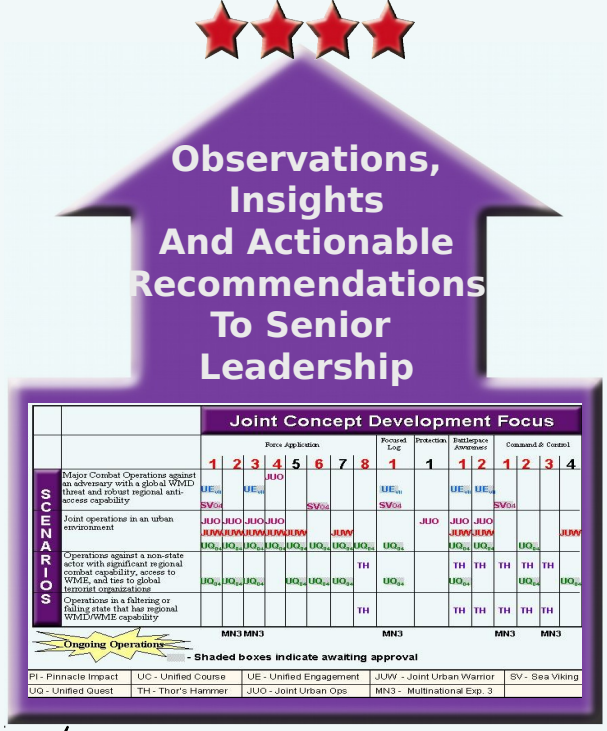
Calendar Predictability

Jun - Jul 05


Observations, Insights And Actionable Recommendations To Senior Leadership
Joint Concept Development Focus
SCENARIOS
Ongoing Operations
- Shaded boxes indicate awaiting approval

- JFCOM/USAF Unified Engagement Creating Coherent Effects Wargame (25-30 Jul 04)
- JFCOM/USMC Sea Viking Joint Forcible Entry Ops Hypothesis Validation (25-29 Oct 04)
- JFCOM Force Projection Wargame (23-28 Jan 05)

Nov - Dec 05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SCENARIOS
Ongoing Operations
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- JFCOM/USMC Joint Urban Warrior 5 Joint Urban Operations Wargame (Mar/Apr 05 (T))
- JFCOM JCD Path Wargame Stability Ops Wargame (12-16 Sep 05)

AFSPACE Schriever III Wargame (14-25 Feb 05)

JFCOM MN Experiment 4 (11-29 July 05) (T)

Joint Concept Development Status

1. ✓ Joint Operations Concepts 1.00 Oct 03
2. Joint Operating Concepts
   - ✓ Major Combat Operations 1.08 Apr 04
   - ✓ Stability Operations 1.03 Mar 04
   - ✓ Strategic Deterrence [STRATCOM] 1.00 Mar 04
   - ✓ Homeland Security [NORTHCOM] 1.00 Mar 04
3. Joint Integrating Concepts
   - ✓ Joint Forcible Entry Operations 0.92 Apr 04
   - Joint Urban Operations 0.91 Apr 04
   - Joint Deployment, Employment, and Sustainment 0.41 Mar 04

• Leverage Combatant Commander Exercises and Operations

4. Ca… Dec

the Standing Force dquarters (SJFHQ) luding the ling concepts for loping sformational joint mand and control

er rapid, typing of bilities to ove joint

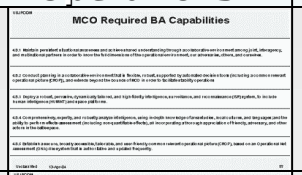
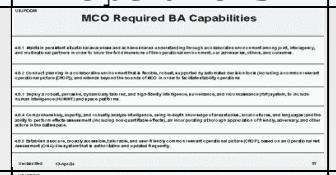
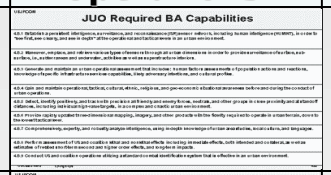
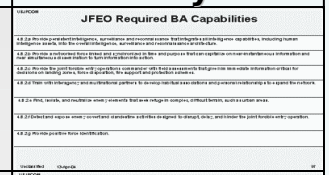
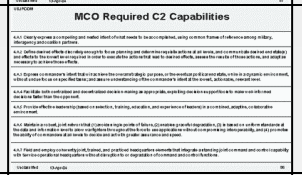
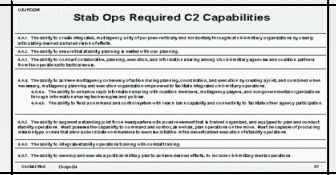
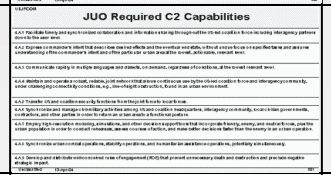
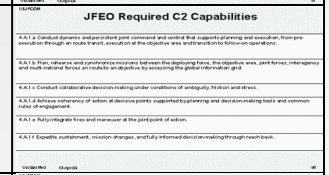
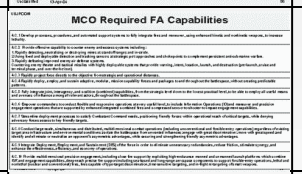
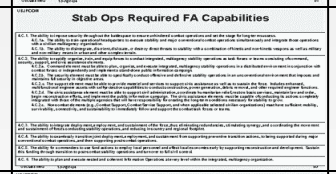
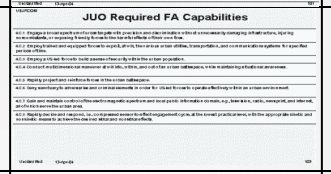
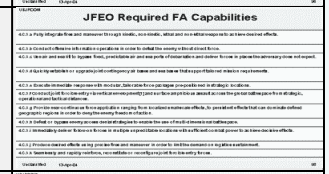
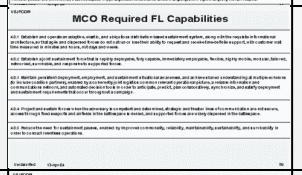
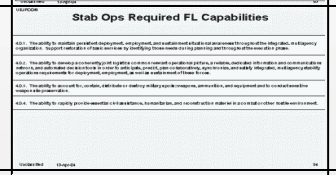
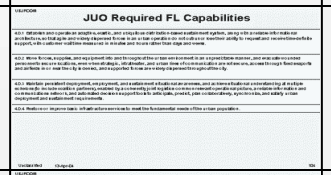
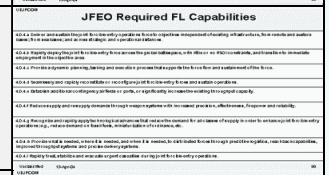
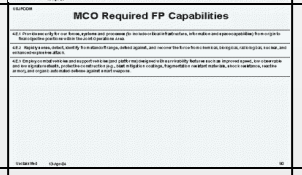
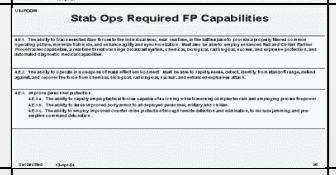
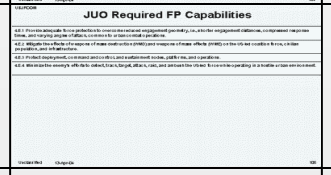
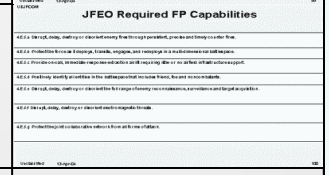
nvironment ways: oncept pe Pathway

FY

Uni Vis

de actionable mmendations experimentation ts to senior ers to inform ns for future investments

Joint Operating Concepts
Joint Integrating Concepts

Functional Capabilities Board	Joint Operational Concept: Major Combat Operations	Joint Operational Concept: Stability Operations	Joint Integrating Concept: Joint Urban Operations	Joint Integrating Concept: Joint Forcible Entry
Battlespace Awareness	 MCO Required BA Capabilities	 MCO Required BA Capabilities	 JUO Required BA Capabilities	 JFEO Required BA Capabilities
Command and Control	 MCO Required C2 Capabilities	 Stab Ops Required C2 Capabilities	 JUO Required C2 Capabilities	 JFEO Required C2 Capabilities
Force Application	 MCO Required FA Capabilities	 Stab Ops Required FA Capabilities	 JUO Required FA Capabilities	 JFEO Required FA Capabilities
Focused Logistics	 MCO Required FL Capabilities	 Stab Ops Required FL Capabilities	 JUO Required FL Capabilities	 JFEO Required FL Capabilities
Protection	 MCO Required FP Capabilities	 Stab Ops Required FP Capabilities	 JUO Required FP Capabilities	 JFEO Required FP Capabilities
Network Centric	Capabilities Under Development	Capabilities Under Development	Capabilities Under Development	Capabilities Under Development

Partnering with Industry

- **Opportunities**
  - **Synergistic concept development & experimentation – better ideas through diversity**
  - **Quicker transition to warfighting capabilities**

- **Challenges**
  - **Barriers to entering government marketplace**
  - **Incomplete awareness in industry of our needs**

- **Ongoing Efforts**
  - **USJFCOM-wide Industry Engagement Board**
  - **Quarterly “Focused Forums” to specify needs**
  - **“Technical Information Exchanges” for follow-on briefings by industry to government-only audiences**